1. **Review: What is a bit? What is a byte?**

A bit is the **basic unit of information** in computing and telecommunications or the amount of information stored by a digital device. A byte is a unit of digital information in computing and telecommunications. **A byte consists of eight bit. Bit has one 0 or 1.**

1. **How many bytes are in a kilobyte?**

1024 bytes are in a kilobyte.

1. **How many kilobytes are in a megabyte?**

1024 kilobytes are in a megabyte.

1. **How many megabytes are in a gigabyte?**

1024 megabytes are in a gigabyte.

1. **How many gigabytes are in a terabyte?**

1024 gigabytes are in a terabyte.

1. **And the ultimate question, how many bits are in a terabyte?**

8,796,093,022,208 bits are in a terabyte.

1. **What is an IP address?**

The **Internet Protocol address is a numerical label assigned to all devices** that participate in a computer network that uses the Internet Protocol for communication.

1. **How do computers store IP addresses? (i.e. in what number system?)**

It used to be a 32 bit number but changed to IPv6 using a 128 bits number.

1. **If we use a system where the IP address look like 74.0.201.6, how many possible addresses are there?**

4,294,967,296 possible IP addresses.

1. **Using the site:** [**http://whatismyipaddress.com/**](http://whatismyipaddress.com/) **determine what your address is.**

175.100.123.94

1. **Can you find out what Google.com’s IP address is? (Note that this will take some poking around, and may change depending on your source!)**

74.125.224.52  
74.125.224.48  
74.125.224.49  
74.125.224.50  
74.125.224.51

74.125.71.99

209.85.148.104